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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/771,658	02/04/2004	Anthony J. Bybell	RPS92003014IUS1	3529
47052	7590	05/02/2006	EXAMINER	
SAWYER LAW GROUP LLP			CHUNG, PHUNG M	
PO BOX 51418			ART UNIT	
PALO ALTO, CA 94303			PAPER NUMBER	
			2138	

DATE MAILED: 05/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/771,658

Applicant(s)

BYBELL, ANTHONY J.

Examiner

Phung My Chung

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 8 is/are allowed.
- 6) ☒ Claim(s) 1,7,9,10 and 14-16 is/are rejected.
- 7) ☒ Claim(s) 2-6,11-13 and 17-21 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 2/4/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_.

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## **DETAILED ACTION**

### **Specification**

1. The disclosure is objected to because of the following informalities:  
page 2, line 3, "Figure 1A" should be changed to -- Figure 1 --. Appropriate correction is required.

### **Claim Rejections - 35 USC § 103**

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 7, 9-10 and 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant admitted prior art (AAPA) in view of D'Souza (5,323,107).

As per claims 1 and 7, the AAPA discloses a system for testing a plurality of cores in an integrated circuit, comprising:

a plurality of slave controllers, each of the slave controller for testing at least one of the plurality of cores; and

a master controller coupled with the plurality of slave controllers, the master controller configured to allow test data to be input directly to a portion of the plurality of slave controllers, the portion of the plurality of slave controllers including more than one slave controller.

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(See Fig. 1, page 2, line 3 to pg. 3, line 9). The AAPA does not disclose that the master controller coupled with the plurality of slave controllers in a star configuration, the master controller configured to allow test data to be input directly to a portion of the plurality of slave controllers in parallel. However, D'Souza discloses that the master controller coupled with the plurality of slave controllers in a star configuration, the master controller configured to allow test data to be input directly to a portion of the plurality of slave controllers in parallel (Fig. 9, col. 6, line 55 to col. 7, line 2). Therefore, it would have been obvious to a person of ordinary skill in the art, at the time the invention was made, to incorporate the master controller coupled with the plurality of slave controllers in a star configuration as taught by D'Souza into the master controller of the AAPA so that the master controller can be configured to allow test data to be input directly to a portion of the plurality of slave controllers in parallel to save testing time.

As per claims 9-10, 14-15 and 16, these methods claims are rejected under similar rationale as set forth in the system claims 1 and 7.

4. Claims 2-6, 11-13 and 17-21 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

5. Claim 8 is allowable.

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***Allowable Subject Matter***

6. The following is an examiner's statement of reasons for allowance:

Claims 8 is allowable over the art of record. This is because the art of record does not teach or disclose the invention as recited in claim 8, including a plurality of AND gates coupled with the plurality of slave controllers and the master controller; and

at least one test data input coupled with the plurality of AND gates, the master controller configured to provide an encoded address to enable a portion of the plurality of AND gates to couple a portion of the plurality of slave controllers to the at least one test data input in parallel, thereby allowing the test data to be input directly to the portion of the plurality of slave controllers in parallel, the portion of the plurality of slave controllers including more than one slave controller.

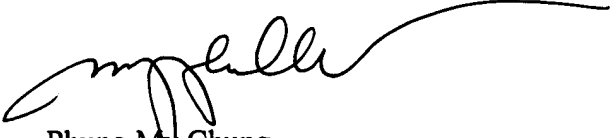
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phung My Chung whose telephone number is 571-272-3818. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert Decady can be reached on 571- 272-3819. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Phung My Chung  
Primary Patent Examiner